

NASA's Space Launch System:

National Aeronautics and
Space Administration



Affordability *for* Sustainability

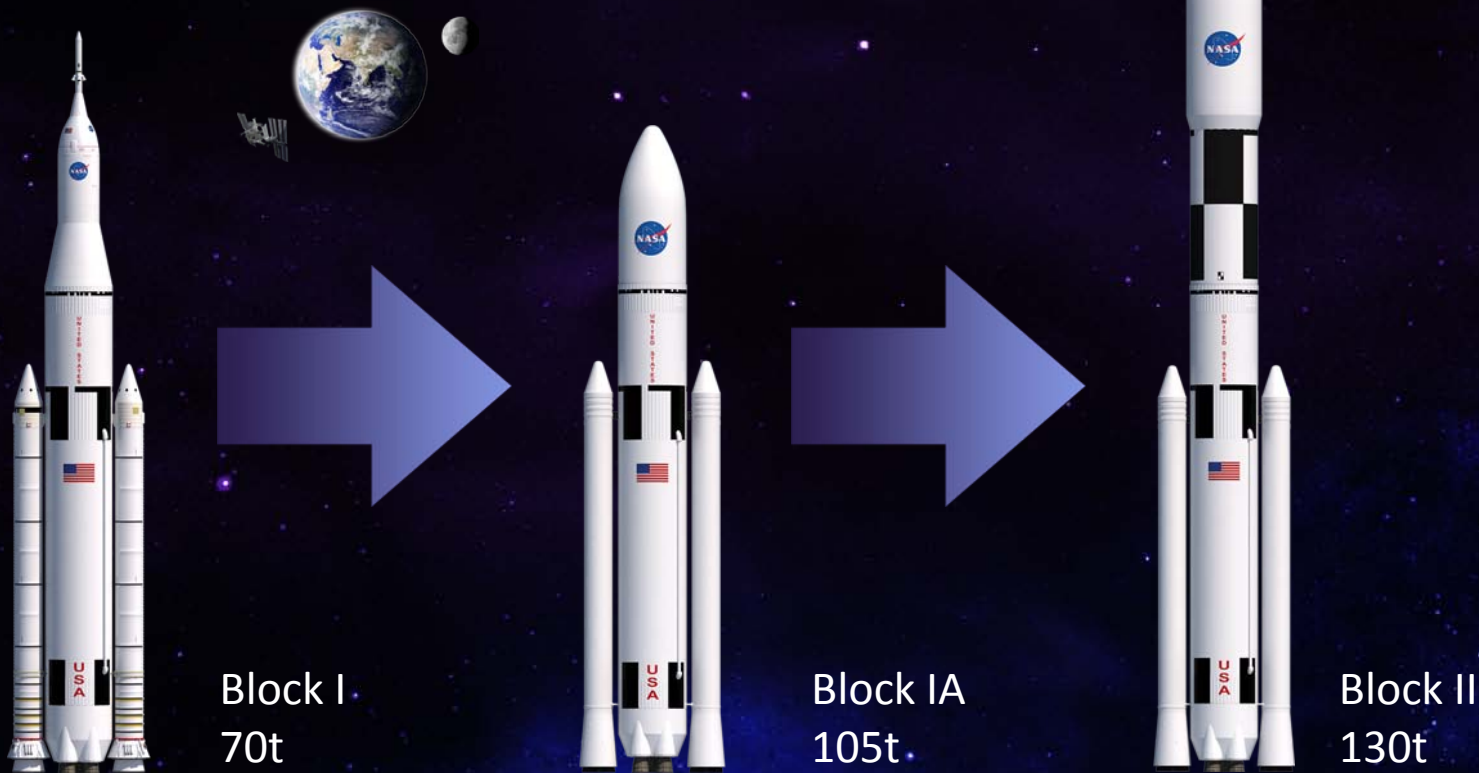
Stephen D. Creech, Strategic Development Manager
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space launch system

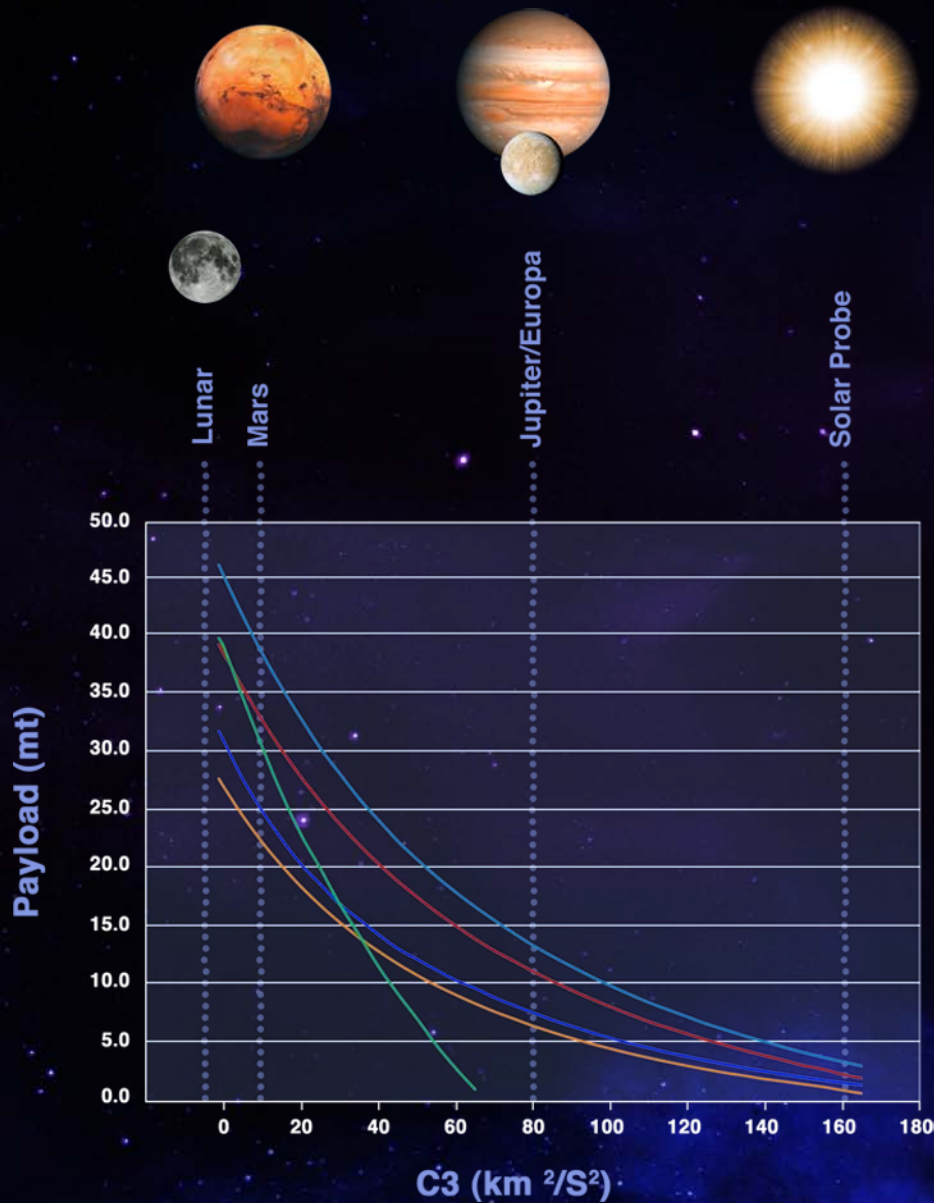


- NASA's Space Launch System (SLS) will be the most powerful rocket ever built.
- This heavy-lift rocket will take astronauts and high-priority science payloads beyond the moon to new destinations, such as an asteroid and Mars.
- The SLS rocket will be an asset for international cooperation and help create opportunities to enrich the future for people around the world.

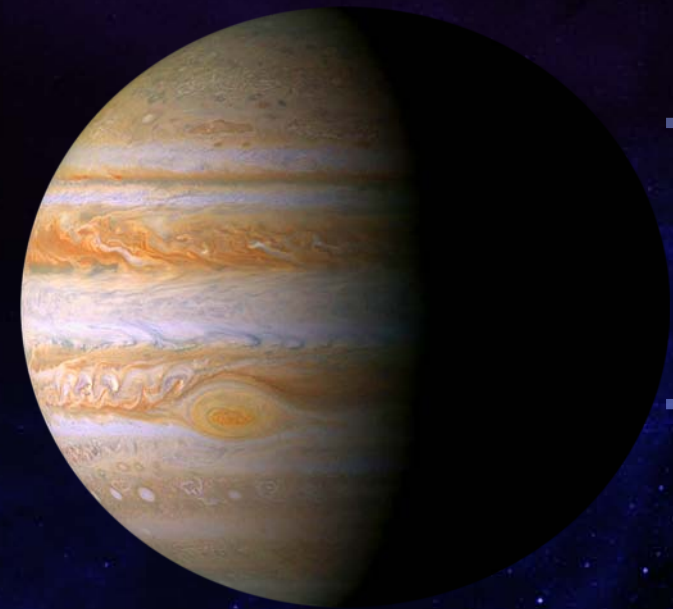
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Vehicle Configuration

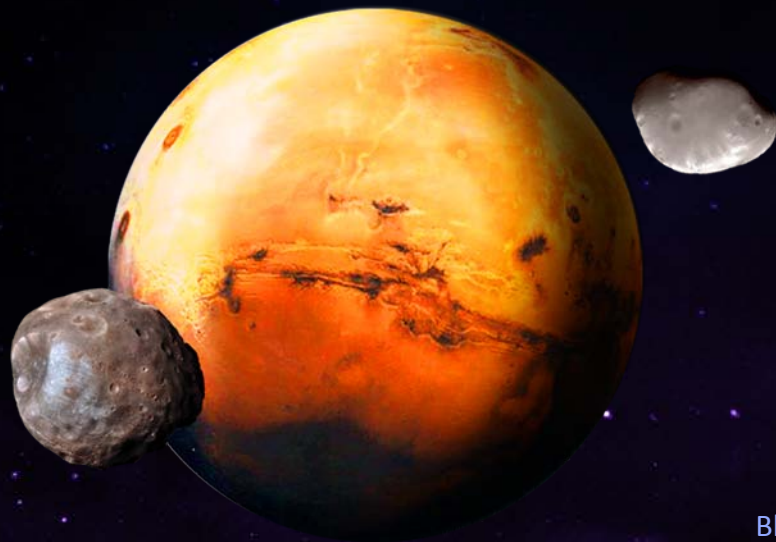


- Block 1 - iCPS1
- Block 1 - iCPS2
- Block 1A - iCPS1
- Block 1A - iCPS2
- Block 2



Mission Performance

space launch system



Block IA

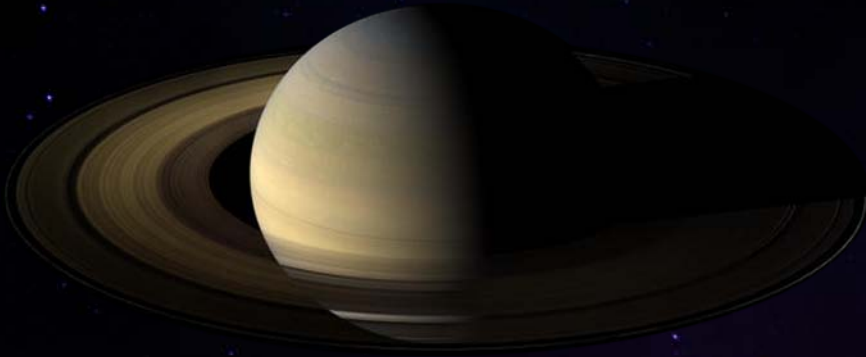
Block II



	SLS
Usable Volume (m ³)	1104
LEO Payload (mt)	70 / 105 / 130
Liftoff Thrust (MN)	36.87

Payload / Shroud

space launch system



Performance = Higher Payload Margins



Performance = Significantly Faster Trip Times



Performance = Less Complex Mechanisms



Volume = Fewer Deployments and On-Orbit Operations

Safe, Affordable, Sustainable